

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application:

1. (currently amended) A rotary switch mounted above and below a panel, comprising:
 - a sealing member disposed between a portion of the switch and an underside of the panel;
 - a detent sub-assembly located entirely above the panel; and
 - a knob that substantially covers the detent sub-assembly and is housed independent of the detent sub-assembly.
2. (currently amended) The ~~switch-mounted~~ rotary switch of claim 1, wherein operation of the detent sub-assembly is not altered by removal of the knob.
3. (currently amended) The ~~switch-mounted~~ rotary switch of claim 1, further comprising a spring and at least one ball that cooperates with a detent in the sub-assembly to provide discrete rotational positioning of the knob.
4. (currently amended) The ~~switch-mounted~~ rotary switch of claim 3, wherein the balls do not extend into the panel.
5. (currently amended) The ~~switch-mounted~~ rotary switch of claim 3, further comprising a shaft that extends through the panel and the detent sub-assembly and is coupled to the knob.
6. (currently amended) The ~~switch-mounted~~ rotary switch of claim 5, wherein the shaft is further coupled to an electrical contact that contacts a printed circuit board below the panel.
7. (currently amended) The ~~switch-mounted~~ rotary switch of claim 6, wherein the detent sub-assembly further comprises a detent sprocket having cylindrical lobes that cooperate with a ~~the~~ spring, the shaft, and a rotor to set a switch position.
8. (currently amended) The ~~switch-mounted~~ rotary switch of claim 7, wherein the switch position defines an electrical circuit.

9. (currently amended) A rotary switch for mounting on a panel, ~~the panel~~ the rotary switch having a fully enclosed detent sub-assembly on a user's side of the panel, and a sealing member disposed between the sub-assembly and an underside of the panel.

10. (currently amended) A method of selecting an electrical circuit using a panel mounted rotary switch, comprising:

- providing a shaft that cooperates with an independent detent sub-assembly located entirely on a user's side of the panel, wherein the shaft is coupled to an electrical connection on an underside of the panel;
- a sealing member disposed between a portion of the switch and an underside of the panel;
- and
- selecting the circuit by rotating the shaft thereby causing the electrical connection to contact a printed circuit board in a configuration approximating the circuit.

11. (previously presented) A panel mounted rotary switch, comprising:

- an independent detent sub-assembly located on a user's side of a panel;
- a sealing member disposed between a portion of the switch and an underside of the panel;
- and
- a shaft that cooperates with the detent sub-assembly to manipulate an electrical connection on an underside of the panel.

12. (currently amended) The ~~panel-mounted~~ rotary switch of claim 1, wherein the detent sub-assembly has a single spring.